

# THE DER WEEKLY

[www.eren.doe.gov/der](http://www.eren.doe.gov/der)

Vol. 2 No. 35

August 31, 2001

## Industry News

### National Grid to Manage Alliance Transco

National Grid, a United Kingdom company that builds, owns, and operates electricity transmission and distribution systems, announced that it has been selected by Alliance Transco, a proposed regional transmission organization (RTO), to be the managing member of its electric transmission system. The Alliance RTO, after Federal Energy Regulatory Commission approval, will include Indiana, Illinois, Kentucky, Michigan, Missouri, North Carolina, Ohio, Pennsylvania, Tennessee, Virginia, and West Virginia. National Grid would make a \$75 million initial capital investment in the RTO, and during the life of the seven-year contract the company expects to receive an annual fee of \$14 million to manage the RTO's transmission assets, which have a gross book value of approximately \$12 billion. According to National Grid's press release, concurring Alliance RTO companies seek a start date of December 15, 2001, to begin operations.

*National Grid Press Release, August 28; The Wall Street Journal, August 28*

### FuelCell Energy Assists Engineering Students

FuelCell Energy is providing financial assistance to engineering students at the Naugatuck Valley Community College (NVCC) in Waterbury, Connecticut, who qualify for a Fuel Cell Certificate Program. The certificate program, funded

"DER Road Show" stops in Nevada — for more information read Power Crunch, The DER Weekly Feature, on page 2.

by FuelCell Energy, is made up of five courses for 20 students and is being taught by the NVCC Engineering Technologies Division. Upon successful completion of the program, the students will receive a Fuel Cell Certificate and employment interviews with FuelCell Energy to learn about opportunities within the company. In a company press release, FuelCell Energy president and CEO Jerry Leitman said that the company is "pleased that Naugatuck Valley Community College is willing to work with us to help students receive the course work that will provide quality careers while ensuring Connecticut's fuel cell future."

*PR Newswire, August 30*

## Regulatory News

### CARB DG Recommendations Under Review

The California Air Resources Board (CARB) has received all comments on the distributed generation (DG) rule and the subsequent recommendations have been sent to management for review. The staff recommended several changes from the June draft, and the final rule will be released September 28. For more information, please visit the CARB Web site at [www.arb.ca.gov/energy/dg/dg.htm](http://www.arb.ca.gov/energy/dg/dg.htm).



### NYSDEC Releases Draft Green Buildings Regs

The New York State Department of Environmental Conservation (NYSDEC) has released draft regulations for the Green Building tax credit program that was signed into law on May 15, 2000. Provisions relating to distributed energy include a tax credit equal to 30 percent of capital costs related to the purchase and installation of fuel cells (capped at \$1000 per kW of installed DC-rated capacity), and a tax credit of 100 percent of incremental costs for building solar panels and 25 percent for non-building integrated panels (capped at \$3,000 per kW). For details on criteria for calculating credits and qualifications, please visit the NYSDEC web site at [www.dec.state.ny.us/website/dar/ood/grnbldg.html](http://www.dec.state.ny.us/website/dar/ood/grnbldg.html).

## What's on the Web



The National Renewable Energy Laboratory has launched a new Web site — the Renewable Energy Analytic Studies Network (REASN). The site provides news, reports, tools, data, and links related to the analysis of renewable energy technologies. REASN also contains interactive features such as a discussion group, file sharing, live chats, and real-time polls.



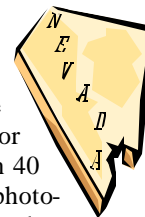
Check it out at  
[www.nrel.gov/reasn](http://www.nrel.gov/reasn).

(Continued on page 2)

## Power Crunch: The DER Weekly Feature

### "DER Road Show" Stops in Clark County, Nevada

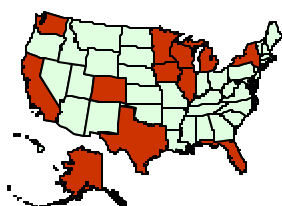
On Wednesday, August 29, the "DER Road Show"—a DER regulatory education and outreach seminar co-sponsored by the Office of Distributed Energy Resources (ODER)—stopped at the Clark County Government Center in Las Vegas, Nevada. ODER teamed with Clark County to educate local building code officials, fire marshals, state energy agency officials, state regulators, and county officials about existing codes and standards for DER technologies, fire and safety issues, and interconnection to the utility's electrical distribution grid. More than 40 people participated in the daylong training session, which included an introduction to microturbines, fuel cells, and photovoltaic systems. A microturbine and a PEM fuel cell were available onsite for participants to look at and ask questions about.



Anne-Marie Borbely represented ODER, and other presenters included Bryan Fox of Capstone Microturbines, Dave Holmes of Avista Labs, and Ward Bower of Sandia National Laboratory. In addition, a representative from the Nevada Public Utilities Commission gave a brief update on the status of DER in Nevada, a state energy agency official discussed DER projects at the MGM Grand Casino, and Naval Air Station, and the president of the newly-formed Distributed Energy Association of Nevada (DEAN) announced future plans for the organization and meeting dates. The seminar concluded with a structured discussion on local siting, code, and permitting issues for permitting agencies and a question and answer session.



Avista Lab's patented modular cartridge fuel design



The Clark County DER Road Show was part of a series of DER regulatory outreach and education seminars being held throughout the country. ODER co-hosted several DER training seminars in the cities of San Diego, San Jose, and Sacramento, California, in late April and early May and in Brooklyn and Long Island, New York, in mid-August. Plans are currently being made for future DER Road Shows, and stops may include cities in the states of Wisconsin, Michigan, Colorado, Texas, Washington, New York (upstate), Illinois, Iowa, Minnesota, Alaska, and/or Florida.

## DOE News

### CA Holds Stationary Fuel Cell Meeting

The California Stationary Fuel Cell Collaborative held a meeting on August 27 in Sacramento to provide an opportunity for industry and government representatives to discuss the development of new stationary fuel cell power projects in the state. William Parks, Associate Deputy Assistant Secretary for the Office of Power Technologies, gave an afternoon presentation on industry and government partnerships, and Anne-Marie Borbely, Office of Distributed Energy Resources, attended the meeting. The collaborative has set specific goals for deploying fuel cells in California and is working on procurement and demonstration strategies. A draft Request for Bids has been circulated for comment and is expected to be finalized at the end of October. Chairpersons plan to schedule a follow-up meeting within the next three months. For more information, visit [www.stationaryfuelcells.org](http://www.stationaryfuelcells.org).

### CEC Identifies R&D Priorities for DER

The California Energy Commission's Public Interest Energy Research (PIER) Program held a workshop to receive comments on an Arthur D. Little report of R&D activities and needs in the areas of distributed energy resources (DER) interconnection, electricity grid impacts and market integration. Joe Galdo, Office of DER, attended the workshop and participated in a panel discussion on positive changes for R&D. The panel of experts discussed concerns and recommendations

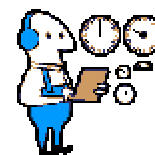
regarding the program's preferred roles in DER R&D. The Arthur D. Little interim report can be found at [www.energy.ca.gov/research/PIER](http://www.energy.ca.gov/research/PIER).

### Utah Industry Showcase

The Utah Industry Showcase was held August 27-29 in Salt Lake City. The State of Utah and the Office of Industrial Technologies (OIT) event was created to support, promote, and highlight the use of advanced technologies in aluminum manufacturing, petroleum refining, metal casting and mining in Utah and the nation. The office of DER coordinated with OIT to provide several distributed generation posters, which were on display and highlighted the use of combined heat and power (CHP). Several of the companies represented at the showcase utilize CHP systems for greater productivity, lower emissions, and substantial annual cost reductions.

## By the Numbers

33	number of states that have enacted net metering programs
26	number of those states that enacted net metering laws in the last 10 years
6	number of states with pending net metering legislation



Source: Distributed Energy: Towards a 21st Century Infrastructure, A Report of the Consumer Energy Council of America, July 2001

# Calendar of Events

## SEPTEMBER 2001

9-12	Microgeneration to Powerparks: Supply options and regulatory challenges	Troy, MI	Great Lakes Renewable Energy Assn. <a href="http://www.glrea.org">www.glrea.org</a>
9-14	6th International Conference on Carbon Dioxide Utilization	Breckenridge, CO	Barbara Ferris, 303-275-3781; <a href="http://www.nrel.gov/iccdubi/">www.nrel.gov/iccdubi/</a>
10-11	Energy Trading in New Economy	New Orleans, LA	<a href="http://www.eyeforenergy.com/eeo2">www.eyeforenergy.com/eeo2</a>
10-12	Electricity Transmission 2001	Arlington, VA	<a href="http://www.iir-ny.com">www.iir-ny.com</a>
10-12	Interconnecting DG to Utility Distribution Systems	Madison, WI	University of Wisconsin-Madison, College of Engineering (800) 462-0876
10-13	2001 Environmental Innovations Summit	Washington, DC	dunn@performancweb.org, 703-519-6270
11-13	7th Grove Fuel Cell Symposium	London, UK	<a href="http://www.grovetfuelcell.com">www.grovetfuelcell.com</a>
16-19	NASEO Annual Meeting	Portland, ME	<a href="http://www.naseo.org/events/annual/default.htm">www.naseo.org/events/annual/default.htm</a>
17-21	5th Biomass Confer. of the Americas	Orlando, FL	<a href="http://www.fsec.ucf.edu/bioam">www.fsec.ucf.edu/bioam</a> ; dee_scheaffer@nrel.gov
20-21	ISO Technology Conference—Building the Electric Energy Industry Market	Washington, DC	<a href="http://www.isotechcon.com">www.isotechcon.com</a>
20-21	Energy Investors Summit	San Francisco, CA	<a href="http://www.srinstitute.com/cr216">www.srinstitute.com/cr216</a>
24-25	Distributed Generation Conference	Denver, CO	<a href="http://www.cbinet.com">www.cbinet.com</a>
24-26	Powering the Future: New Strategies & Solutions for Deploying DP in Mktplace	Chicago, IL	<a href="http://www.intertechusa.com">www.intertechusa.com</a>
24-26	Conservation or Crisis: A Northwest Choice	Portland, OR	<a href="http://www.bpa.gov/Energy/N/news/crisis.shtml">www.bpa.gov/Energy/N/news/crisis.shtml</a>
30 – Oct. 5	UPEX'01: The Photovoltaic Experience Conference & Expo	Sacramento, CA	Jjudd@ttcorp.com; hosted by Sacramento Municipal Utility District; includes distributed energy technologies workshop

## OCTOBER 2001

2-3	Midwest Electrical Conf. and Expo	Indianapolis, IN	<a href="http://www.electricleagueindiana.org/expo2001/index.htm">www.electricleagueindiana.org/expo2001/index.htm</a>
4-5	Distributed Generation Seminar	Boston, MA	<a href="http://www.aeecenter.org">www.aeecenter.org</a>
7-10	APPA Telecommunications Wkshp.	Seattle, WA	<a href="http://www.appanet.org">www.appanet.org</a> ; Bethany Luna (202) 467-2993
10-11	Fuel Cell Dynamics: Reality, Not Hype	New York, NY	<a href="http://www.alliedworld.com">www.alliedworld.com</a>
14-17	National Center for Photovoltaics Program Review	Lakewood, CO	barbara_ferris@nrel.gov, 303-275-3781
16-18	IEEE Distributed Resources and Electric Power Systems Interconnection Working Group (P1547) Meeting	Las Vegas, NV	<a href="http://grouper.ieee.org/groups/scc21/1547/">http://grouper.ieee.org/groups/scc21/1547/</a>
16-17	CHP Roadmap Meeting	Baltimore, MD	John Jimison, johnj@bcjlaw.com
16-17	Two-day Seminar on Materials for Corrosive Applications	Wilmington, DE	Rick Sutherlin, (541) 967-6924
16-17	Energy & Environmental Technologies Conference	Atlantic City, NJ	<a href="http://www.eetech.org">www.eetech.org</a>
22-23	Fuel Cells for Portable Devices	San Francisco, CA	<a href="http://www.f-cellsnetwork.com/NA-1660-01">www.f-cellsnetwork.com/NA-1660-01</a>
24-26	World Energy Engineering Congress	Atlanta, GA	<a href="http://www.agcc.org">www.agcc.org</a> (includes CHP Expo <a href="http://www.aeecenter.org">www.aeecenter.org</a> )
24-27	Excellence in Building 2001	Orlando, FL	<a href="http://www.eeba.org/conference">www.eeba.org/conference</a>
28-Nov. 2	2001 IEEE/PES Transmission and Distribution Conference and Expo	Atlanta, GA	<a href="http://www.ieeet-d.org">www.ieeet-d.org</a>
29-30	Reliability-Focused Energy Efficiency Conference: Lessons Learned in 2001	Berkeley, CA	<a href="http://www.aceee.org">www.aceee.org</a>

*The billboard is 50 feet by 18 feet with more than 210 light bulbs, and will be located on Sunset Boulevard In Los Angeles. \**

# Calendar of Events

## NOVEMBER 2001

1-2	3rd Int'l Symposium on DG	San Diego, CA	<a href="http://www.cader.org">www.cader.org</a>
1-4	World Congress for Hydrogen Economy	Denver, CO	<a href="http://www.hydrogennow.org">www.hydrogennow.org</a>
6	NAESCO DG Conference	Miami, FL	<a href="http://www.naesco.org/conference.htm">www.naesco.org/conference.htm</a>
6-7	Empire Energy & Environment Expo	Albany, NY	info@eba-nys.org
7-9	NAESCO 18th Annual Conference	Miami, FL	<a href="http://www.naesco.org/conference.htm">www.naesco.org/conference.htm</a>
8-9	DG Strategies & On-site Power Applications for Fuel Cells	Atlanta, GA	<a href="http://www.dist-gen.com">www.dist-gen.com</a>
11-14	113th NARUC Annual Convention	Philadelphia, PA	<a href="http://www.naruc.org">www.naruc.org</a>
12-14	Fuel Cells for Stationary, Automotive and Portable Apps.	Fort Lauderdale, FL	Florida Educational Seminars, (561) 367-0193
27-28	Business for Fuel Cells for Stationary Applications	Brussels, Belgium	<a href="http://www.eyeforfuelcells.com">www.eyeforfuelcells.com</a>
28-30	The Power to Choose: Creating an Expanded DER Industry	Washington, DC	<a href="mailto:cs@energeticsinc.com">cs@energeticsinc.com</a>

## DECEMBER 2001

3-4	4th Business Case for Opportunity and Investment in Fuel Cells	Miami, FL	<a href="http://www.cbinet.com">www.cbinet.com</a>
5-7	4th Annual Interactive Energy Conf.	Houston, TX	<a href="http://www.interactiveenergy.com/2001">www.interactiveenergy.com/2001</a>
11-13	Power-Gen International	Las Vegas, NV	<a href="http://www.pennwellevents.com">www.pennwellevents.com</a>

## JANUARY 2002

14-15	Material Technologies for Fuel Cells and Power Electronics	Cocoa Beach, FL	<a href="http://www.ceramics.org/meetings/ECD2002/expo.asp">www.ceramics.org/meetings/ECD2002/expo.asp</a>
28-Feb.1	Distributed Power Program Annual Review Meeting	Arlington, VA	kimberly_taylor@nrel.gov
29-Feb.1	Reducing Your Energy Costs Conference and Exhibit	New Orleans, LA	Stuart Steller, 781-939-2411, s.steller@cbinet.com

## FEBRUARY 2002

27-Mar 1	DistribUTECH	Miami Beach, FL	<a href="http://www.pennwellevents.com">www.pennwellevents.com</a>
----------	--------------	-----------------	--

## MARCH 2002

17-21	EPRI's 7th Distributed Resources Conference and Expo	Dallas, TX	lgoldie@epri.com
19-21	Electric Power 2002	St. Louis, MO	<a href="http://www.electricpowerexpo.com">www.electricpowerexpo.com</a>